

*Flash point.* The minimum temperature at which sufficient vapor is released by a liquid to form a flammable vapor-air mixture near the surface of the liquid.

*Main fan.* A fan that controls the entire airflow of an underground mine or the airflow of one of the major air circuits of the mine.

*Mine opening.* Any opening or entrance from the surface into an underground mine.

*Multipurpose dry-chemical fire extinguisher.* An extinguisher having a rating of at least 2-A:10-B:C and containing a nominal 4.5 pounds or more of dry-chemical agent.

*Noncombustible material.* A material that, in the form in which it is used and under the conditions anticipated, will not ignite, burn, support combustion, or release flammable vapors when subjected to fire or heat. Concrete, masonry block, brick, and steel are examples of noncombustible materials.

*Safety can.* A container of not over five gallons capacity that is designed to safely relieve internal pressure when exposed to heat and has a spring-closing lid and spout cover.

*Storage tank.* A container exceeding 60 gallons in capacity used for the storage of flammable or combustible liquids.

**§ 57.4011 Abandoned electric circuits.**

Abandoned electric circuits shall be deenergized and isolated so that they cannot become energized inadvertently.

**§ 57.4057 Underground trailing cables.**

Underground trailing cables shall be accepted or approved by MSHA as flame resistant.

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PROHIBITIONS/PRECAUTIONS/  
HOUSEKEEPING

**§ 57.4100 Smoking and use of open flames.**

No person shall smoke or use an open flame where flammable or combustible liquids, including greases, or flammable gases are—

- (a) Used or transported in a manner that could create a fire hazard; or
- (b) Stored or handled.

**§ 57.4101 Warning signs.**

Readily visible signs prohibiting smoking and open flames shall be posted where a fire or explosion hazard exists.

**§ 57.4102 Spillage and leakage.**

Flammable or combustible liquid spillage or leakage shall be removed in a timely manner or controlled to prevent a fire hazard.

**§ 57.4103 Fueling internal combustion engines.**

Internal combustion engines shall be switched off before refueling if the fuel tanks are integral parts of the equipment. This standard does not apply to diesel-powered equipment.

**§ 57.4104 Combustible waste.**

(a) Waste materials, including liquids, shall not accumulate in quantities that could create a fire hazard.

(b) Waste or rags containing flammable or combustible liquids that could create a fire hazard shall be placed in the following containers until disposed of properly:

- (1) Underground—covered metal containers.
- (2) On the surface—covered metal containers or equivalent containers with flame containment characteristics.

**§ 57.4130 Surface electric substations and liquid storage facilities.**

The requirements of this standard apply to surface areas only.

(a) If a hazard to persons could be created, no combustible materials shall be stored or allowed to accumulate within 25 feet of the following:

- (1) Electric substations.
- (2) Unburied, flammable or combustible liquid storage tanks.
- (3) Any group of containers used for storage of more than 60 gallons of flammable or combustible liquids.

(b) The area within the 25-foot perimeter shall be kept free of dry vegetation.

**§ 57.4131 Surface fan installations and mine openings.**

(a) On the surface, no more than one day's supply of combustible materials shall be stored within 100 feet of mine